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### 1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on C**

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process event tracers often used to obtain a better understanding of the execution of the application. The visualization tool developed at the University of Waterloo. However, these diagrams are often very complex for the user with the desired overview of the application. In our experience, such tools display repetitive trivial communication ...

### 2 [Tools and approaches for developing data-intensive Web applications: a survey](#)

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: [pdf\(524.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications that establish a direct business-to-customer relationship. The development of such applications is a hybrid between traditional development and Hypermedia authoring, and challenges the existing tools and approaches for software development. This paper investigates the current situation of Web development tools, both in the commercial and research communities, identifying and characterizing ...

**Keywords:** HTML, Intranet, WWW, application, development

### 3 [The state of the art in locally distributed Web-server systems](#)

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Full text available: [pdf\(1.41 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

The overall increase in traffic on the World Wide Web is augmenting user-perceived response time at Web sites, especially in conjunction with special events. System platforms that do not replicate information provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in client requirements. The need to improve the performance of Web-based services has produced a variety of novel architectures. This article reviews ...

**Keywords:** Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed

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h c g e c f c

balancing, routing mechanisms

4 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available:  [pdf\(6.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment for the methodology. The methodology and the development environment are based upon models used in the hypermedia, information systems, and software engineering fields, adapted and blended. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a new specification of structure, navigation ...

**Keywords:** HTML, WWW, application, development, intranet, modeling

5 Web-based development of complex information products

Roy T. Fielding, E. James Whitehead, Kenneth M. Anderson, Gregory A. Bolcer, Peyman Oreizy, Richard  
August 1998 **Communications of the ACM**, Volume 41 Issue 8


Full text available:  [pdf\(200.01 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Reusable software components

Trudy Levine

July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4

Full text available:  [pdf\(2.45 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

7 Web mining for web personalization

Magdalini Eirinaki, Michalis Vazirgiannis

February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1

Full text available:  [pdf\(293.73 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web personalization is the process of customizing a Web site to the needs of specific users, taking knowledge acquired from the analysis of the user's navigational behavior (usage data) in correlation with information collected in the Web context, namely, structure, content, and user profile data. Due to the Web, the domain of Web personalization has gained great momentum both in the research and in practice; in this article we present a survey ...

**Keywords:** WWW, Web personalization, Web usage mining, user profiling

8 Current technological impediments to business-to-consumer electronic commerce

Gregory Rose, Huoy Khoo, Detmar W. Straub

June 1999 **Communications of the AIS**

Full text available:  [pdf\(479.36 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#)

9 SilkRoute: A framework for publishing relational data in XML

Mary Fernández, Yana Kadiyska, Dan Suciu, Atsuyuki Morishima, Wang-Chiew Tan

December 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 4

Full text available:  [pdf\(687.91 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML is the "lingua franca" for data exchange between interenterprise applications. In this work, we present a framework for publishing relational data in XML. In SilkRoute, relational data is published in three tables are presented to the database administrator in a canonical XML view; the database administrator can query the XQuery query language a public, virtual XML view over the canonical XML view; and an application can query over the publ ...

**Keywords:** XML, XML storage systems, XQuery

# 10 Workshop on compositional software architectures: workshop report

May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Full text available:  [pdf\(2.91 MB\)](#)Additional Information: [full citation](#), [index terms](#)

# 11 xlinkit: a consistency checking and smart link generation service

Christian Nentwich, Licia Capra, Wolfgang Emmerich, Anthony Finkelstein

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Full text available:  [pdf\(463.26 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

xlinkit is a lightweight application service that provides rule-based link generation and checks the consistency of distributed Web content. It leverages standard Internet technologies, notably XML, XPath, and XLI as part of a consistency management scheme or in applications that require smart link generation and construction and management of large document repositories. In this article we show how consistency is expressed and checked. We describe ...

**Keywords:** Consistency management, XML, automatic link generation, constraint checking

# 12 Performance Workload Characterization and Adaptation: Aliasing on the world wide web: prevalence and implications

Terence Kelly, Jeffrey Mogul

May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available:  [pdf\(376.28 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Aliasing occurs in Web transactions when requests containing different URLs elicit replies containing identical payloads. Conventional caches associate stored data with URLs and can therefore suffer redundancy due to aliasing and other causes. Existing research literature, however, says little about the prevalence of aliasing in initiated transactions, or about redundant payload transfers in conventional Web cache hierarchies or the extent of aliasing ...

**Keywords:** DTD, HTTP, WWW, Zipf's law, aliasing, cache hierarchies, caching, duplicate suppression, detection, hypertext transfer protocol, performance analysis, redundant transfers, resource modification

# 13 Spoken dialogue technology: enabling the conversational user interface

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1



Full text available:  [pdf\(987.69 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases by using natural spoken language. The origins of spoken dialogue systems can be traced back to research in the 1950s concerned with developing conversational interfaces. However, it is only with so, with major advances in speech technology, that large-scale working systems have been developed and introduced into commercial ...

**Keywords:** Dialogue management, human computer interaction, language generation, language recognition, speech synthesis

#### 14 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**


Full text available:  [pdf\(613.63 KB\)](#)  [html\(2.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 15 Survey articles: Web usage mining: discovery and applications of usage patterns from Web

Jaideep Srivastava, Robert Cooley, Mukund Deshpande, Pang-Ning Tan

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Full text available:  [pdf\(1.44 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Web usage mining is the application of data mining techniques to discover usage patterns from Web sites to better understand and better serve the needs of Web-based applications. Web usage mining consists of three phases: *preprocessing*, *pattern discovery*, and *pattern analysis*. This paper describes each of these phases and its application potential. Web usage mining has seen a rapid increase in interest, from both the research and industry communities. This paper ...

**Keywords:** data mining, web usage mining, world wide web

#### 16 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Full text available:  [pdf\(335.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The World Wide Web has succeeded in large part because its software architecture has been designed as an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes component interactions, generality of interfaces, independent deployment of components, and intent to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we describe the Representational State Transfer (REST) architecture ...

**Keywords:** Network-based applications, REST, World Wide Web

#### 17 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available:  [pdf\(233.31 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recent advances in wireless data networking and portable information appliances have engendered mobile computing, called mobile computing, in which users carrying portable devices have access to data and services regardless of their physical location or movement behavior. In the meantime, research and development in mobile environments has proliferated. In this survey, we provide a concrete framework for mobile computing in various ways ...

**Keywords:** application adaptation, cache invalidation, caching, client/server, data dissemination, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey

#### 18 The Web Service Discovery Architecture

Wolfgang Hoschek

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Full text available:  [pdf\(282.28 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose the Web Service Discovery Architecture (WSDA). At runtime, Grid application architecture to discover and adapt to remote services. WSDA promotes an interoperable web service defining appropriate services, interfaces, operations and protocol bindings, based on industry standards because it subsumes an array of disparate concepts, interfaces and protocols under a single semi-modular because it defines ...

## 19 Requirements for distributed authoring and versioning on the World Wide Web

J. A. Slein, F. Vitali, E. J. Whitehead, D. G. Durand

March 1997 **StandardView**, Volume 5 Issue 1

Full text available:  [pdf\(96.62 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 20 Role-based access control on the web

February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue :

Full text available:  [pdf\(331.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current approaches to access control on the Web servers do not scale to enterprise-wide systems based on individual user identities. Hence we were motivated by the need to manage and enforce RBAC access control technology in large-scale Web environments. To satisfy this requirement, we designed architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we

**Keywords:** WWW security, cookies, digital certificates, role-based access control

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